Toyota Tacoma Electric Fan Kit; '05–'09
#678 with controls
#688 without controls

--- INSTALLATION INSTRUCTIONS ---

REMOVAL OF EXISTING FAN AND SHROUD ASSEMBLY:
1. Make sure the engine is cool.
2. Disconnect negative (-) battery cable from battery.
3. Remove plastic protective cover from top of engine / intake manifold. Two acorn nuts located in front are to be removed first. Lift front of cover and notice the cover is hinging at back. Pull to disconnect at pivot point.
4. Remove plastic cover bridging shroud to top cross member. (9 ea) Push-type plastic rivets need to be removed (see Detail 1). Prying each center post up with a flat-end screwdriver will release fastener.
5. Remove overflow hose from radiator filler neck.
6. Remove top bolts (2ea.) holding fan shroud to radiator side tanks. Save bolts for installation of new shroud (see Detail 2).
7. Remove (4ea.) nuts securing fan-clutch assembly (see Detail 3); then pull fan-clutch assembly and shroud out simultaneously.
8. Important: Re-secure pulley with new washers of kit bag #13615 and original pulley nuts.

Plastic Cover

Detail 1

Plastic Rivets

Save bolts for new installation

Detail 2
INSTALLATION OF NEW ELECTRIC FAN SHROUD:

1. Mount bracket #67802 to driver’s side of shroud. Use the hex bolts and washers provided. Note: Leave the bracket loosely mounted for now; you will adjust and tighten them later (see Detail 4 & 4a).

2. Lower shroud, with one bracket only, into position inserting bottom of bracket into slot at bottom of side tank (driver’s side). Loosely secure top of bracket using factory bolt, saved from step #6 of page 1.

3. Attach overflow tank to bracket #67801 using supplied hardware included with overflow tank (see Detail 4 & 4b).

4. Attach bracket #67801 to passenger’s side radiator tank and fan shroud;
   a. Insert bottom of bracket into slot at bottom of side tank.
   b. Loosely secure top of bracket using factory bolt, saved from step #6.
   c. Mount bracket loosely to shroud using the hex bolts and washers provided (see Detail 4 & 4b).

5. After both brackets and shroud are attached; make final adjustments utilizing slots provided. When tightening the brackets, adjust the fan so that the rubber seal is contacting the radiator core and compress the seal about ~50%. Note: It may help to have a friend hold the fan against the core while tightening brackets.

6. Mount rubber hose supplied to radiator filler neck and to the shorter of the two tubes protruding from bottom of overflow tank (see Detail 4).

7. If you disconnected any hoses or drained coolant to install the fan, reconnect the hoses and refill the radiator. At this time fill overflow tank ~25% of capacity.
1. Connect the motor wires to the control module (Red wire to the "M+" terminal and black wire to the "M-" terminal).

2. Use the large diameter red (10 AWG) wire to run power directly from the battery positive (+) terminal to the "B" terminal on the control module. Connect the fuse holder in-line with this wire, as shown, but do not insert the fuse yet. Use the yellow female, ring, and butt connectors provided.

3. Use the large diameter black (10 AWG) wire to run from the negative (-) battery terminal to the "G" terminal on the control module. Use the yellow female connector and ring connector provided.

4. Use the small diameter red wire (14 AWG) to connect the "+" terminal on the control module to a positive power source. **NOTE:** Attaching this wire to an ignition-controlled source will shut off the fan when the engine is turned off. Attach this wire to an uninterrupted (always hot) power source to allow the fan to continue running after the engine is shut off. Use the blue female connector and fuse taps (included) if necessary.

5. (Mandatory) With air conditioning, connect the "C" terminal on the control module to the positive wire that triggers the A/C compressor using the small diameter green (14 AWG) wire. Using a voltmeter, determine which wire coming from the compressor is the positive trigger wire. Use the 3-way connector (included) to tap into this wire and send a signal to the fan control module. The fan will cycle on and off with the A/C clutch when the A/C is turned on.

6. (Optional) For manual switch operation, use Flex-a-lite p/n 31148. Connect the switch as shown on the wiring diagram (previous page). Connect the "M" terminal on the control module to the "1" terminal on the switch. Connect the "2" terminal on the switch to a positive 12v power source. Connect terminal "3" on the switch to a good ground (for switch illumination). **NOTE:** To prevent thermostatic activation (if only manual switch operation is desired), omit the lead to the "+" terminal of the control box. "B", "G", "M+" and "M-" must remain connected. If not using a Flex-a-lite manual switch, do not connect a ground wire to the switch!

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7. Use the zip ties provided to secure the wires and prevent them from interfering with fan blades, belts, and pulleys in the engine compartment. Insert the fuse provided.

8. Locate the inlet hose from the engine to the radiator. Remove the black insulator cap from the temperature probe then insert the temp. probe through the radiator fins near the inlet hose. Reinstall the black insulator cap.

7. Press the control knob (included in wiring kit) onto the control box shaft. Turn the knob clockwise until it stops.

8. Reconnect negative (-) battery cable to battery. Start the engine and allow it to idle. Using a hand held thermometer (positioned near the inlet hose) or the vehicle’s temperature gauge, monitor the temperature. When the coolant temp is slightly above normal (or desired temp.), turn the knob counter-clockwise just until the fan turns on. From now on, the fan should activate at this temperature setting. Adjust as necessary to maintain desired temperature.

After the engine has been at normal operating temperature for ~45 minutes, adjust overflow tank coolant level to be at ~50% capacity.

Wiring Instructions – Model #688 ONLY!

Wire the fan motor to power source (control unit or switch and relay if desired).

1. Connect the colored wire from the fan motor to a 12 volt positive (+) source. Be sure to connect an inline fuse holder with a 30 amp fuse to the positive (+) power wire to protect the fan motor and your vehicle’s electrical system from damage.

2. Connect the black motor wire to a ground (-) source.

NOTE: failure to do this will result in incorrect operation and damage to the fan motor!

After the engine has been at normal operating temperature for ~45 minutes, adjust overflow tank coolant level to be at ~50% capacity.

The Flex-a-lite Limited Warranty

Flex-a-lite Consolidated, 7213-45th St. Ct. E. Fife, WA 98424, Telephone No. 253-922-2700, warrants to the original purchasing user, that all Flex-a-lite products to be free of defects in material and workmanship for a period of 365 days (1 year) from date of purchase. Flex-a-lite products failing within 365 days (1 year) from date of purchase may be returned to the factory through the point of purchase, transportation charges prepaid. If, on inspection, cause of failure is determined to be defective material or workmanship and not by misuse, accidental or improper installation, Flex-a-lite will replace the fan free of charge, transportation prepaid. Flex-a-lite will not be liable for incidental, progressive or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state to state. The Flex-a-lite warranty is in compliance with the Magnuson-Moss Warranty Act of 1975.